MANITOBA VITAL STATISTICS

1986

A REGIONAL ANALYSIS

MBS 87-10

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Manitoba
Bureau of
Statistics

I. EXECUTIVE SUMMARY

BIRTHS

There were 17,524 live births in Manitoba during 1986. Of these, 11,787 (67.3%) occurred in Winnipeg. The Winnipeg region had the highest birth rate with 19.8 births per thousand population followed by the North with a birth rate of 18.9. The lowest birth rates were in the Southeast and Interlake regions, where they were 5.3 each. For Manitoba, the birth rate was 16.2 births per thousand population.

There were 9,087 (51.9%) male births and 8,436 (48.1%) female births. For every 1,000 males in the population, there were 17.1 male births, compared to 15.4 female births for every 1,000 females in the population. Male births outnumbered female births in all regions except the South Central region.

DEATHS

There were 9,013 deaths in Manitoba in 1986. There were 5,442 (60.4%) in Winnipeg alone. The region with the highest death rate was the Parklands, with 10.4 deaths per thousand population. Southwest was second highest with a rate of 10.1. The North region had the lowest death rate, with 4.2. The Southeast also had a low death rate of 5.2. The death rate for Manitoba was 8.3.

There were 4,921 (54.6%) male deaths, compared to 4,091 (45.4%) female deaths. The death rates for males were higher than those for females in all 8 Economic Regions. For Manitoba, the male death rate was 9.3, while the female death rate was 7.5.

STILLBIRTHS

The number of stillbirths in Manitoba in 1986 was 103. Of these stillbirths, 70 (68.0%) occurred in Winnipeg. The Southwest had the second highest number at 11 (10.7%), followed with the North with 10 (9.7%) stillbirths.

The rate of male stillbirth was 6.3 per 1,000 male live births, while the rate of female stillbirth was 5.5 per 1,000 female live births. For Manitoba, the rate of stillbirth was 5.9 per 1,000 live births.

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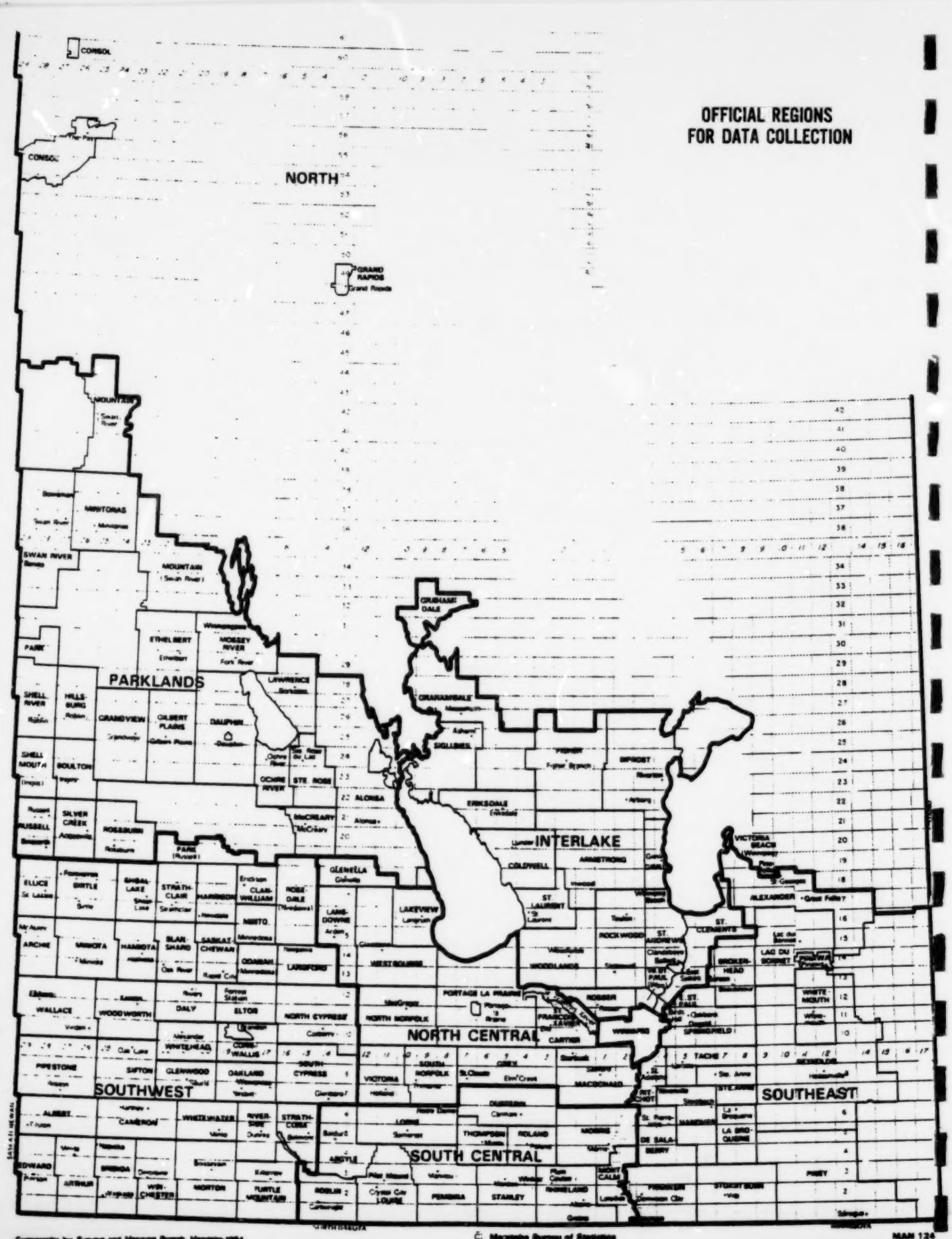
OFFICIAL REGIONS
FOR DATA COLLECTION
NORTH
PARKLANDS
INTERLAKE
NORTH CENTRAL
SOUTHWEST
SOUTH CENTRAL
SOUTHEAST
CONSOL
GRAND RAPIDS
MOUNTAIN
MINITONAS
SWAN RIVER
ETHELBERT
MOSSEY RIVER
PARK
SHELL RIVER
HILLSBURG
GRANDVIEW
GILBERT PLAINS
DAUPHIN
SHELL MOUTH
BOULTON
OCHRE RIVER
STE ROSE
ALONSA
RUSSELL
SILVER CREEK
ROSSBURN
McCREARY
PARK
LAWRENCE
GRUBHAME DALE
GRANDMALE
SIGLUNES
ERIKSDALE
BIRCH
COLDWELL
ARMSTRONG
ST LAURENT
ROCKWOOD
VICTORIA BEACH
ALEXANDER
ST CLEMENTS
ST ANDREWS
BROKEN HEAD
LAC DU BONNET
WHITE MOUTH
ELLICE
BIRTLE
SHOAL LAKE
STRATHCLAIR
HARRISON
ERICKSON
CLAREWILLIAM
ROSEDALE
GLENELLA
LANSDOWNE
LAKEVIEW
WESTBOURNE
ARCHIE
MINIOTA
HAMIOTA
BLAINSHARD
SASKATCHEWAN
ODANAH
LANSFORD
WALLACE
WOODWORTH
DALY
ELTON
NORTH CYPRESS
PORTAGE LA PRAIRIE
NORTH NORFOLK
ROSSER
CARTER
SPRINGFIELD
TACHE
PIPESTONE
SIFTON
GLENWOOD
OAKLAND
SOUTH CYPRESS
VICTORIA
SOUTH NORFOLK
GREY
MACDONALD
ALBERT
CAMERON
WHITEWATER
RIVERSIDE
STRATHCONA
LORNE
DUFFERIN
THOMPSON
ROLAND
MORRIS
ARGYLE
EDWARD
BRENDA
BOISSEVAIN
ARTHUR
WINCHESTER
NORTON
TURTLE MOUNTAIN
ROBLIN
CLYDE CITY LOUISE
PEMBINA
STANLEY
RHINELAND
SOUTH CALM
PRAIRIE GROVE
STUARTBURN
PREY
ST ANDREWS
ST PAUL
ST JAMES
ASSINIBOIA
ST BONIFACE
ST VITAL
ST NORBERT
ST BONIFACE
ST GEORGE
ST JOHN
ST JAMES
ST JAMES
ST ANNE

II. INTRODUCTION

This article presents the data of the vital statistics (births, deaths, and stillbirths) in the year 1986 for the province of Manitoba. The tables were constructed using data that was reported by the Vital Statistics Branch, Department of Community Services. This data refers to events that occurred in Manitoba and involved Manitobans by place of occurrence. Where all characteristics of an event have not been recorded, the vital event has been omitted from that statistical table.

The population figures used are from the Statistics Canada 1986 postcensal annual estimates of population, rounded to the nearest hundred. Where population estimates by sex were not available, population projections by sex, from the Manitoba Bureau of Statistics, were used to derive the approximate distribution of the population by sex. The Statistics Canada estimate was then broken down according to this distribution.

Manitoba is divided into 8 Official Regions for Data Collection (also known as Economic Regions). The following table illustrates the association between data collection region, economic region, and census division.

OFFICIAL REGION FOR DATA COLLECTION	ECONOMIC REGION	CENSUS DIVISION
Southeast	60	1,2,12
South Central	61	3,4
Southwest	62	5,6,7,15
North Central	63	8,9,10
Winnipeg	64	11
Interlake	65	13,14,18
Parklands	66	16,17,20
North	67	19,21,22,23

The map also illustrates these relationships.

Further information and custom data tabulations on the 1986 vital statistics can be obtained from the Manitoba Bureau of Statistics by contacting David Greenwood at 945-2989.

TABLE I MANITOBA 1986 VITAL STATISTICS BY ECONOMIC REGION BOTH SEXES

REGION	POPN IN 000'S (JUNE 1)	LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE	RATES			
						LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE
SOUTHEAST	75.0	400	1	390	10	5.3	2.5	5.2	0.1
SOUTH CENTRAL	50.5	636	4	380	256	12.6	6.3	7.5	5.1
SOUTHWEST	110.5	1,698	11	1,111	587	15.4	6.5	10.1	5.3
NORTH CENTRAL	47.5	547	3	373	174	11.5	5.5	7.9	3.7
WINNIPEG	595.9	11,787	70	5,442	6,345	19.8	5.9	9.1	10.6
INTERLAKE	70.4	375	3	449	(74)	5.3	8.0	6.4	(1.1)
PARKLANDS	53.1	651	1	551	100	12.3	1.5	10.4	1.9
NORTH	75.7	1,430	10	316	1,114	18.9	7.0	4.2	14.7
MANITOBA	1,078.6	17,524	103	9,012	8,512	16.2	5.9	8.4	7.9

NOTE: RATES FOR LIVE BIRTHS, DEATHS, AND NATURAL INCREASE ARE PER 1000 POPULATION.
RATE FOR STILLBIRTHS IS PER 1000 LIVE BIRTHS.
ONE DEATH HAS NOT BEEN CODED TO ECONOMIC REGION.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES
STATISTICS CANADA

III. REGIONAL ANALYSIS

In Manitoba, there were 17,524 live births. As shown in Table I, it can be seen that Winnipeg accounted for more live births than any other region, with 11,787 (67.3%). The Interlake had the fewest with 375 (2.1%). Winnipeg had the highest birth rate with 19.8 births per 1,000 population followed by the North with a birth rate of 18.9. The birth rates in all other regions were lower than the Manitoba rate of 16.2. The Interlake and Southeast had the lowest birth rates, both at 5.3.

The number of stillbirths in Manitoba was 103. Winnipeg accounted for 70 (68.0%) of these stillbirths. The rate of stillbirths was highest in the Interlake region, where there were 8.0 stillbirths per 1,000 live births in that region. The Parklands region had the lowest stillbirth rate of 1.5. The Southeast also had a low stillbirth rate of 2.5. The remaining regions had rates ranging from 5.5 to 7.0.

There were 9,013 deaths in Manitoba during 1986. Winnipeg had 5,442 (60.4%) of these deaths. The North had the fewest deaths, with 316 (3.5%). The death rate for Manitoba was 8.4 per 1,000 population. The highest death rate was in the Parklands, where it was 10.4. Southwest also had a high rate (10.1), while the lowest death rates were found in the North (4.2), and the Southeast (5.2).

MALES

Referring to Table II, there were 9,087 male births in Manitoba. Of these, 6,124 (67.4%) occurred in Winnipeg. The Interlake had the fewest male births with 197 (2.2%). The rate of births for males in Manitoba was 17.1 male births per 1,000 males in the population. Winnipeg's male birth rate was the highest at 21.3. The North and Southwest regions also had high rates, while the Southeast and Interlake had the lowest, at 5.2 and 5.5 males per 1,000 males in their populations.

Of the 57 male stillbirths in Manitoba, 40 (70.2%) occurred in Winnipeg. No other region had more than 6 stillbirths. The rate of male stillbirth in Winnipeg was 6.3 stillbirths per 1,000 male live births. The Interlake had a male stillbirth rate of 10.2, considerably above the Manitoba figure of 6.3.

From Table II, deaths of males in Manitoba numbered 4,921, with 2,877 (58.5%), taking place in Winnipeg. The South Central region had the fewest male deaths with 202 (4.1%). The Southwest had the highest male death rate with 11.9 male deaths per 1,000 males in its population. There were also high male death rates in the Parklands (11.1) and Winnipeg (10.0). The lowest male death rates were found in the North (5.2) and Southeast (6.2).

TABLE II MANITOBA 1986 VITAL STATISTICS BY ECONOMIC REGION MALES

REGION	POPN IN 000'S (JUNE 1)	LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE	RATES			
						LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE
SOUTHEAST	38.5	201	1	237	(36)	5.2	5.0	6.2	(0.9)
SOUTH CENTRAL	25.3	315	1	202	113	12.5	3.2	8.0	4.5
SOUTHWEST	54.6	885	6	649	236	16.2	6.8	11.9	4.3
NORTH CENTRAL	24.0	293	2	204	89	12.2	6.8	8.5	3.7
WINNIPEG	286.9	6,124	40	2,877	3,247	21.3	6.5	10.0	11.3
INTERLAKE	35.9	197	2	250	(53)	5.5	10.2	7.0	(1.5)
PARKLANDS	26.9	348	0	298	50	12.9	0.0	11.1	1.9
NORTH	39.3	724	5	204	520	18.4	6.9	5.2	13.2
MANITOBA	531.0	9,087	57	4,921	4,166	17.1	6.3	9.3	7.8

TABLE III MANITOBA 1986 VITAL STATISTICS BY ECONOMIC REGION FEMALES

REGION	POPN IN 000'S (JUNE 1)	LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE	RATES			
						LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE
SOUTHEAST	36.6	199	0	153	46	5.4	0.0	4.2	1.3
SOUTH CENTRAL	25.2	321	3	178	143	12.7	9.3	7.1	5.7
SOUTHWEST	55.9	813	5	462	351	14.5	6.2	8.3	6.3
NORTH CENTRAL	23.5	254	1	169	85	10.8	3.9	7.2	3.6
WINNIPEG	309.0	5,662	30	2,565	3,097	18.3	5.3	8.3	10.0
INTERLAKE	34.6	178	1	199	(21)	5.1	5.6	5.8	(0.6)
PARKLANDS	26.2	303	1	253	50	11.6	3.3	9.7	1.9
NORTH	36.4	706	5	112	594	19.4	7.1	3.1	16.3
MANITOBA	547.6	8,436	46	4,091	4,345	15.4	5.5	7.5	7.9

NOTE: RATES FOR LIVE BIRTHS, DEATHS, AND NATURAL INCREASE ARE PER 1000 POPULATION.
RATE FOR STILLBIRTHS IS PER 1000 LIVE BIRTHS.
ONE DEATH NOT CODED TO ECONOMIC REGION & ONE LIVE BIRTH NOT CODED TO SEX.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES
MANITOBA BUREAU OF STATISTICS

FEMALES

As illustrated in Table III, there were 8,436 female live births in Manitoba. Once again, the majority, 5,662 (67.1%) occurred in Winnipeg. The Interlake region registered the fewest female births with 178 (2.1%). The female birth rate for Manitoba was 15.4 per 1,000 females in the population. The North had the highest female birth rate at 19.4. Winnipeg (18.3) also had a high female birth rate, while the Interlake and the Southeast had the lowest female birth rates of 5.1 and 5.4 respectively .

There were 46 female stillbirths in Manitoba, 30 (65.2%) of which occurred in Winnipeg. There were no female stillbirths recorded in the Southeast during 1986, while the North Central, Interlake and Parklands recorded one each. The rate of female stillbirth in Manitoba was 5.5 per 1,000 female live births. The highest rates were recorded in the South Central (9.3), North (7.1) and Southwest (6.2) regions. Winnipeg reported a stillbirth rate of 5.3 while other rates reported were 3.3 in Parklands and 3.9 in North Central.

The number of female deaths in Manitoba totalled 4,091. Winnipeg accounted for 2,565 (62.7%). The North had the fewest with 112 (2.7%). The highest female death rate was in the Parklands region where there was 9.7 female deaths for every 1,000 females in the population. Winnipeg and the Southwest had rates of 8.3 deaths per 1,000. The lowest female death rates were in the Southeast (4.2), Interlake (5.8) and the North (3.1). The female death rates for the rest of the regions were close to the provincial figure of 7.5.

TABLE IV

MANITOBA 1986 BIRTHS AND STILLBIRTHS BY WEIGHT

WEIGHT	MALES			FEMALES			BOTH SEXES		
	LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE
UNDER 500 g	4	4	1,000.0	12	5	416.7	16	9	562.5
500 - 999 g	32	15	468.8	24	11	458.3	56	26	464.3
1000-1499 g	46	5	108.7	44	4	90.9	90	9	100.0
1500-1999 g	114	4	35.1	97	7	72.2	211	11	52.1
2000-2499 g	278	7	25.2	326	5	15.3	604	12	19.9
2500-2999 g	972	4	4.1	1,293	5	3.9	2,265	9	4.0
3000-3499 g	2,890	5	1.7	3,209	2	0.6	6,099	7	1.1
3500-3999 g	3,110	2	0.6	2,530	4	1.6	5,640	6	1.1
4000-4499 g	1,296	3	2.3	770	2	2.6	2,066	5	2.4
4500-4999 g	289	0	0.0	112	0	0.0	401	0	0.0
5000-5499 g	36	0	0.0	10	0	0.0	46	0	0.0
5500-5999 g	3	0	0.0	2	0	0.0	5	0	0.0
6000-6499 g	3	0	0.0	0	0	0.0	3	0	0.0
OVER 6500 g	0	0	0.0	2	0	0.0	2	0	0.0
UNKNOWN	14	8	571.4	5	1	200.0	19	9	473.7
TOTALS	9,087	57	6.3	8,436	46	5.5	17,523	103	5.9

NOTE: STILLBIRTH RATE IS PER 1000 LIVE BIRTHS.
ONE LIVE BIRTH NOT CODED TO SEX.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

IV. WEIGHT-SPECIFIC BIRTHS AND STILLBIRTHS

Table IV shows that there were few live births in the extreme weight classes. Most of the live births occurred between the weights 2500 grams and 4499 grams. There were 6,099 (34.8%) live births between 3000 g and 3500 g, the most for any single weight class. Two births were recorded at over 6500 grams.

The greatest number of stillbirths occurred in the 500 g to 999 g weight range. This weight class had 26 (25.2%) of the stillbirths, a stillbirth rate of 464.3 per 1,000 livebirths. The heaviest stillbirths were recorded in the 4000 g to 4499 g weight class. The highest stillbirth rate (562.5) was recorded in the Under 500 g weight class.

MALES

The male live births followed the same general pattern as above. There were 3,110 (34.2%) male live births in the 3500 g to 3999 g weight range, more than in any other weight class.

The greatest number of stillbirths occurred in the 500 g to 999 g weight range, where there were 15 (26.3%). The highest male stillbirth rate was for those less than 500 g in weight. There were 1000.0 male stillbirths per 1,000 male live births of this weight (based on 4 live births and 4 stillbirths).

FEMALES

The female live births also followed the same general pattern as above with 3,209 (38.0%) of the female live births between 3000 g and 3499 g in weight.

The greatest number of stillbirths (11 or 23.9% of all female stillbirths) occurred in the 500 g to 999 g weight range. The 500 g to 900 g weight class had the highest female stillbirth rate, 458.3 female stillbirths per 1,000 live female births in this class. The second highest rate of female stillbirths (416.7) occurred in the Under 500 g weight class.

TABLE V

MANITOBA 1986 DEATHS BY AGE GROUP

AGE IN YEARS	MALES POPN IN 000'S	MALES DEATHS	MALES DEATH RATE	FEMALES POPN IN 000'S	FEMALES DEATHS	FEMALES DEATH RATE	BOTH SEXES POPN IN 000'S	BOTH SEXES DEATHS	BOTH SEXES DEATH RATE
UNDER 1	8.7	84	9.7	8.2	81	9.9	16.9	165	9.8
1 - 4	33.5	13	0.4	31.8	18	0.6	65.4	31	0.5
5 - 9	39.8	6	0.2	37.7	7	0.2	77.5	13	0.2
10-14	40.9	12	0.3	38.7	6	0.2	79.7	18	0.2
15-19	42.4	41	1.0	40.8	22	0.5	83.1	63	0.8
20-24	50.0	86	1.7	48.4	17	0.4	98.4	103	1.0
25-29	48.5	48	1.0	47.9	27	0.6	96.4	75	0.8
30-34	43.8	62	1.4	43.9	27	0.6	87.7	89	1.0
35-39	39.6	71	1.8	39.8	42	1.1	79.4	113	1.4
40-44	30.6	88	2.9	30.5	61	2.0	61.1	149	2.4
45-49	25.3	117	4.6	25.1	72	2.9	50.5	189	3.7
50-54	24.1	166	6.9	24.2	90	3.7	48.3	256	5.3
55-59	23.8	277	11.6	25.1	148	5.9	48.9	425	8.7
60-64	23.0	388	16.9	26.6	243	9.1	49.6	631	12.7
65-69	19.6	561	28.6	23.0	282	12.3	42.6	843	19.8
70-74	16.6	700	42.2	20.6	471	22.9	37.1	1,171	31.6
75-79	11.1	732	65.9	15.1	535	35.4	26.2	1,267	48.4
80-84	6.7	655	97.8	10.3	638	61.9	17.0	1,293	76.1
85-89	2.7	487	180.4	5.6	616	110.0	8.4	1,103	131.3
90 AND OVER	1.3	327	251.5	3.2	687	214.7	4.5	1,014	225.3
UNKNOWN		1			1			2	
TOTALS	532.1	4,922	9.3	546.5	4,091	7.5	1,078.6	9,013	8.4

NOTE: DEATH RATE IS DEATHS PER 1000 POPULATION.
POPULATION FIGURES ARE 1986 PRELIMINARY POSTCENSAL ESTIMATES.
TWO DEATHS NOT CODED TO AGE GROUP.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

V. AGE-SPECIFIC DEATHS

From Table V, it can been seen that the number of deaths steadily rose as age increased. However, there was a high number of deaths in the first year of life, which did not fit in with this pattern.

There were 165 (1.8%) of the deaths in the first year of life. This is a death rate of 9.8 per 1,000 people of this age. The lowest death rates were for those in the 5 to 9 and the 10 and 14 age groups, where there were 13 (0.1%) deaths, a rate of 0.2 and 18 deaths (0.2%), a rate of 0.2. The most deaths occurred between the ages 80 and 84, where there were 1,293 deaths (14.3%). The highest death rate occurred in the highest age group. There were 1,014 deaths of those aged 90 years or more, a rate of 225.3 for this group.

MALES

There were 84 (1.7%) deaths of males less than a year of age, a death rate of 9.7 for this age group. The greatest number of male deaths occurred between the ages 75 and 79, where there were 732 (14.9%) deaths for a death rate of 65.9. There were 700 (14.2%) male deaths recorded in the 70 to 74 age group and the death rate was 42.2, approximately 2/3 that of the 75 - 79 age group. The fewest male deaths in any single age group was 6 (0.1%), for those between the ages of 5 and 9. For this age group, the death rate for males was 0.2, lower than in any other age group. The highest male death rate (251.5) was for the age group 90 and over.

FEMALES

There were 81 (2.0%) female deaths of less than a year of age as shown in Table V. This represents a death rate of 9.9. The greatest number of female deaths occurred in the highest age group, where 687 (16.8%) of the deaths occurred, a rate of 214.7 per 1,000 females in that age group. The fewest female deaths were between the ages 10 and 14, where there were 6 (0.1%). The female death rate for this age group was 0.2.

The female death rates were higher than the corresponding male rate for the Under 1 and the 1 to 4 age categories. For all other ages, the male death rate was greater than or equal to the female rate.

TABLE VI MANITOBA 1986 INFANT DEATHS BY AGE

AGE	MALES		FEMALES		BOTH SEXES	
	DEATHS	DEATH RATE	DEATHS	DEATH RATE	DEATHS	DEATH RATE
UNDER 1 DAY	27	3.0	27	3.2	54	3.1
1 - 6 DAYS	26	2.9	18	2.1	44	2.5
7 - 13 DAYS	2	0.2	1	0.1	3	0.2
14 - 27 DAYS	4	0.4	6	0.7	10	0.6
28 DAYS-3 MONTHS	13	1.4	14	1.7	27	1.5
3 - 6 MONTHS	5	0.6	9	1.1	14	0.8
6 MONTHS-1 YEAR	7	0.8	6	0.7	13	0.7
NEONATAL	59	6.5	52	6.2	111	6.3
POST-NEONATAL	25	2.8	29	3.4	54	3.1
INFANT	84	9.2	81	9.6	165	9.4
PERINATAL	110	12.0	91	10.7	201	11.4

NOTE: INFANT DEATH RATES ARE PER 1000 LIVE BIRTHS.
PERINATAL DEATH RATES ARE PER 1000 TOTAL BIRTHS.
NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.
ONE INFANT DEATH NOT CODED TO SEX.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

VI. INFANT DEATHS

Infant deaths are deaths among those of less than 1 year of age. These deaths are further classified as being neonatal or post-neonatal. Neonatal deaths are deaths among infants less than 28 days of age. Post-neonatal deaths are infant deaths of 28 days of age or more. Another class of infant deaths is the perinatal death. A perinatal death is a death at less than 7 days of age or a stillbirth.

From Table VI, it can be seen that there were 165 infant deaths (1.8% of all deaths) in Manitoba, 111 (67.3%) of which were neonatal, and 54 (32.7%) of which were post-neonatal. There were 201 perinatal deaths.

Most of the neonatal deaths were also perinatal deaths, as 54 (48.6%) of the deaths were of those less than 1 day of age, and 44 (33.6%) were of those between 1 and 6 days of age. The neonatal death rate was 6.3 per 1,000 live births. Of the 201 perinatal deaths, 103 (51.2%) were stillbirths. The perinatal death rate was 11.4 per 1,000 total births, where total births are defined to be live births and stillbirths combined.

MALES

There were 84 male infant deaths (50.9% of all infant deaths) of which 59 (70.2%) were neonatal and 25 (29.8%) post-neonatal deaths. There were also 110 perinatal deaths. Most of the male neonatal deaths were also perinatal. There were 27 male deaths (32.1% of male infant deaths) of less than 1 day of age, and 26 (31.0%) aged 1 to 6 days. Of the 110 perinatal deaths, 57 (51.8%) were stillbirths.

FEMALES

There were 81 (49.1% of all infant deaths) female infant deaths in 1986. Of these, 52 (64.2%) were neonatal, 29 (35.8%) were post-neonatal, and there were 91 female perinatal deaths, 46 (50.5%) of which were stillbirths. There were 27 (33.3%) female infant deaths on the first day of life, and 18 (22.2%) between the ages 1 and 6 days.

TABLE VII

MANITOBA 1986 INFANT DEATHS BY TYPE AND ECONOMIC REGION

BOTH SEXES

	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
TYPE									
INFANT	6	4	8	1	131	2	1	12	165
NEONATAL	2	1	5	0	100	2	0	1	111
POST-NEONATAL	4	3	3	1	31	0	1	11	54
STILLBIRTHS	1	4	11	3	70	3	1	10	103
PERINATAL	3	5	16	3	170	5	1	11	214
RATE									
(per 1,000 live births)									
INFANT	15.0	6.3	4.7	1.8	11.1	5.3	1.5	8.4	9.4
STILLBIRTHS	2.5	6.3	6.5	5.5	5.9	8.0	1.5	7.0	5.9
PERINATAL (per 1,000 total births)	7.5	7.8	9.4	5.5	14.3	13.2	1.5	7.6	12.1

NOTE: INFANT DEATH RATES ARE PER 1000 LIVE BIRTHS.
PERINATAL DEATH RATES ARE PER 1000 TOTAL BIRTHS.
NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

VII. INFANT DEATHS BY TYPE AND ECONOMIC REGION

As shown in Table VII, Winnipeg recorded 131 (79.4%) of the 165 infant deaths in Manitoba during 1986. The North, with 12 (7.3%) was the only other region to record more than eight infant deaths during 1986. There was only 1 infant both in the North Central and Parklands regions.

Of the 131 infant deaths in Winnipeg, 100 (76.3%) were neonatal while the other 31 (23.7%) were post-neonatal. For the Southwest, 5 (62.5%) of the 8 infant deaths were neonatal and 3 (37.5%) were post-neonatal. However, for the North 1 (8.3%) was neonatal and 11 (91.7%) were post-neonatal. The Southeast, South Central, North Central and Parklands regions also had fewer neonatal than post-neonatal deaths.

When expressed per 1,000 live births, Manitoba had an infant death rate of 9.4. Winnipeg at 11.1 infant deaths per 1,000 live births and Southeast at 15.0 were the only regions having infant death rates above the provincial figure while the North Central at 1.8 and Parklands at 1.5 were well below.

When perinatal deaths are examined, Winnipeg had 170 (79.4%) of the 214 perinatal deaths in Manitoba. The Southwest with 16 (7.5%) and the North with 11 (5.1%) perinatal deaths accounted for most of the remaining 44 perinatal deaths that occurred outside Winnipeg.The Parklands region recorded only 1 perinatal death in 1986.

Manitoba had a perinatal rate of 12.1 per 1,000 total births. Regions with rates above the provincial figure are Winnipeg (14.3) and the Interlake (13.2%). The Parklands region had a perinatal rate of only 1.5 based on 1 perinatal death.

Detailed information on infant deaths by age, sex and Economic Region is shown in Tables D1-D3.

VIII. CONCLUSION

The natural increase is the number of births minus the number of deaths. For Manitoba during 1986, there was a natural increase of 8,512. This is a rate of 7.9 per thousand population. The natural increase of the female population was higher than that of the male population by 179 people.

Winnipeg had the highest natural increase, with 6,345 more births than deaths (74.5% of the provincial natural increase). The highest rate of natural increase was found in the North, where there was an excess of 14.7 births over deaths per 1,000 population. Winnipeg's rate was also high at 10.6. Low rates of natural increase occurred in the Parklands and in the South East, while the Interlake region actually had a natural decrease of 74, which is a rate of 1.1 more deaths than births per 1,000 population. The rate of natural increase was higher for females (7.9) than it was for males (7.8).

Most live births (16,070 out of 17,523) occurred between the weights 2.5 kg and 4.5 kg. Males tended to be born at higher weights than females, on the average. Most stillbirths occurred at weights below 2.5 kg, with many between 0.5 kg and 1 kg in weight. The rate of stillbirth was very high for the lower weight classes.

There were few deaths between the ages 1 and 39. The number of deaths of males was highest between the ages 65 and 84, while for females, the most deaths occurred at ages over 75. Male death rates were greater than or equal to female death rates over all age groups, except for the Under 1 age group and the 1 to 4 age group. Most infant deaths occurred in the first week of life.

TABLE A1 BIRTHS BY WEIGHT BY ECONOMIC REGION : 1986 BOTH SEXES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	0	1	0	15	0	0	0	16
500- 999	2	1	2	0	48	0	0	3	56
1000-1499	0	0	9	0	78	0	1	2	90
1500-1999	2	1	13	3	185	0	1	6	211
2000-2499	3	6	42	12	484	3	12	42	604
2500-2999	38	52	236	79	1,595	35	66	164	2,265
3000-3499	146	225	581	201	4,068	133	251	495	6,099
3500-3999	135	243	563	173	3,682	139	211	494	5,640
4000-4499	57	89	208	66	1,329	53	89	175	2,066
4500-4999	14	16	36	13	259	8	15	40	401
5000-5499	2	2	7	0	29	2	2	2	46
5500-5999	0	0	0	0	3	0	1	1	5
6000g OR MORE	0	0	0	0	4	0	1	0	5
UNKNOWN	1	1	0	0	8	2	1	6	19
TOTAL	400	636	1,698	547	11,786	375	651	1,430	17,523

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

TABLE A2

BIRTHS BY WEIGHT BY ECONOMIC REGION : 1986

MALES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	0	0	0	4	0	0	0	4
500- 999	0	1	2	0	29	0	0	0	32
1000-1499	0	0	4	0	40	0	0	2	46
1500-1999	1	0	7	2	97	0	1	6	114
2000-2499	1	2	19	3	225	2	6	20	278
2500-2999	12	12	109	39	684	10	32	74	972
3000-3499	60	110	275	98	1,952	63	121	211	2,890
3500-3999	76	122	309	98	2,043	79	116	267	3,110
4000-4499	37	56	128	43	837	33	55	107	1,296
4500-4999	12	9	26	10	182	7	13	30	289
5000-5499	1	2	6	0	23	2	1	1	36
5500-5999	0	0	0	0	1	0	1	1	3
6000g OR MORE	0	0	0	0	2	0	1	0	3
UNKNOWN	1	1	0	0	5	1	1	5	14
TOTAL	201	315	885	293	6,124	197	348	724	9,087

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

TABLE A3

BIRTHS BY WEIGHT BY ECONOMIC REGION : 1986

FEMALES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	0	1	0	11	0	0	0	12
500- 999	2	0	0	0	19	0	0	3	24
1000-1499	0	0	5	0	38	0	1	0	44
1500-1999	1	1	6	1	88	0	0	0	97
2000-2499	2	4	23	9	259	1	6	22	326
2500-2999	26	40	127	40	911	25	34	90	1,293
3000-3499	86	115	306	103	2,115	70	130	284	3,209
3500-3999	59	121	254	75	1,639	60	95	227	2,530
4000-4499	20	33	80	23	492	20	34	68	770
4500-4999	2	7	10	3	77	1	2	10	112
5000-5499	1	0	1	0	6	0	1	1	10
5500-5999	0	0	0	0	2	0	0	0	2
6000g OR MORE	0	0	0	0	2	0	0	0	2
UNKNOWN	0	0	0	0	3	1	0	1	5
TOTAL	199	321	813	254	5,662	178	303	706	8,436

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

TABLE B1

STILLBIRTHS BY WEIGHT BY ECONOMIC REGION : 1986

BOTH SEXES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	0	1	0	8	0	0	0	9
500- 999	1	0	0	1	20	1	1	2	26
1000-1499	0	0	2	0	6	0	0	1	9
1500-1999	0	0	1	0	8	0	0	2	11
2000-2499	0	2	1	1	8	0	0	0	12
2500-2999	0	1	2	0	5	0	0	1	9
3000-3499	0	1	1	1	3	0	0	1	7
3500-3999	0	0	0	0	3	2	0	1	6
4000-4499	0	0	3	0	2	0	0	0	5
4500-4999	0	0	0	0	0	0	0	0	0
5000-5499	0	0	0	0	0	0	0	0	0
5500-5999	0	0	0	0	0	0	0	0	0
6000g OR MORE	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	7	0	0	2	9
TOTAL	1	4	11	3	70	3	1	10	103

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

TABLE B2 STILLBIRTHS BY WEIGHT BY ECONOMIC REGION : 1986 MALES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	0	0	0	4	0	0	0	4
500- 999	1	0	0	1	11	1	0	1	15
1000-1499	0	0	1	0	4	0	0	0	5
1500-1999	0	0	1	0	1	0	0	2	4
2000-2499	0	1	0	1	5	0	0	0	7
2500-2999	0	0	2	0	2	0	0	0	4
3000-3499	0	0	1	0	3	0	0	1	5
3500-3999	0	0	0	0	1	1	0	0	2
4000-4499	0	0	1	0	2	0	0	0	3
4500-4999	0	0	0	0	0	0	0	0	0
5000-5499	0	0	0	0	0	0	0	0	0
5500-5999	0	0	0	0	0	0	0	0	0
6000g OR MORE	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	7	0	0	1	8
TOTAL	1	1	6	2	40	2	0	5	57

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

TABLE B3

STILLBIRTHS BY WEIGHT BY ECONOMIC REGION : 1986

FEMALES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	0	1	0	4	0	0	0	5
500- 999	0	0	0	0	9	0	1	1	11
1000-1499	0	0	1	0	2	0	0	1	4
1500-1999	0	0	0	0	7	0	0	0	7
2000-2499	0	1	1	0	3	0	0	0	5
2500-2999	0	1	0	0	3	0	0	1	5
3000-3499	0	1	0	1	0	0	0	0	2
3500-3999	0	0	0	0	2	1	0	1	4
4000-4499	0	0	2	0	0	0	0	0	2
4500-4999	0	0	0	0	0	0	0	0	0
5000-5499	0	0	0	0	0	0	0	0	0
5500-5999	0	0	0	0	0	0	0	0	0
6000g OR MORE	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0	0	1	1
TOTAL	0	3	5	1	30	1	1	5	46

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

TABLE C1 DEATHS BY AGE GROUP AND ECONOMIC REGION : 1986 BOTH SEXES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 YEAR	6	4	8	1	131	2	1	12	165
1-4 YEARS	3	1	2	2	19	0	0	4	31
5- 9	1	0	0	2	9	0	0	1	13
10-14	1	1	0	0	10	2	1	3	18
15-19	6	1	4	4	32	3	3	10	63
20-24	5	2	9	5	55	2	8	16	102
25-29	7	1	4	7	40	4	2	10	75
30-34	2	3	5	3	51	8	4	13	89
35-39	6	2	6	4	73	4	7	11	113
40-44	7	2	11	6	91	8	7	17	149
45-49	11	8	11	6	118	10	9	16	189
50-54	17	6	21	12	165	12	10	13	256
55-59	17	12	41	17	285	19	16	18	425
60-64	23	23	61	15	420	30	36	23	631
65-69	32	25	109	42	528	45	44	18	843
70-74	47	39	140	50	728	57	70	40	1,171
75-79	54	65	181	47	766	58	69	27	1,267
80-84	49	56	189	45	753	69	105	27	1,293
85-89	52	76	157	61	602	59	79	17	1,103
90 AND OVER	44	53	152	43	565	57	80	20	1,014
UNKNOWN	0	0	0	1	1	0	0	0	2
TOTAL	390	380	1,111	373	5,442	449	551	316	9,012

NOTE: ONE MALE DEATH HAS NOT BEEN CODED TO REGION

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

TABLE C2

DEATHS BY AGE GROUP AND ECONOMIC REGION : 1986

MALES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 YEAR	0	2	5	1	66	1	0	9	84
1-4 YEARS	1	1	1	1	7	0	0	2	13
5- 9	0	0	0	1	4	0	0	1	6
10-14	1	1	0	0	7	1	1	1	12
15-19	4	0	2	4	20	3	1	7	41
20-24	4	1	9	5	42	1	7	16	85
25-29	7	1	3	2	23	3	2	7	48
30-34	2	1	5	2	31	8	3	10	62
35-39	4	0	4	0	46	4	4	9	71
40-44	4	0	7	3	55	5	4	10	88
45-49	7	6	4	2	78	4	6	10	117
50-54	13	4	10	7	112	6	4	10	166
55-59	13	9	28	8	178	17	12	12	277
60-64	13	12	41	12	253	18	25	14	388
65-69	26	13	77	29	341	30	35	10	561
70-74	33	27	84	30	426	39	40	21	700
75-79	34	38	116	28	421	32	46	17	732
80-84	27	27	109	23	357	38	56	18	655
85-89	25	40	74	29	249	23	36	11	487
90 AND OVER	19	19	70	16	161	17	16	9	327
UNKNOWN	0	0	0	1	0	0	0	0	1
TOTAL	237	202	649	204	2,877	250	298	204	4,921

NOTE: ONE MALE DEATH HAS NOT BEEN CODED TO REGION

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

TABLE C3 DEATHS BY AGE GROUP AND ECONOMIC REGION : 1986 FEMALES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 YEAR	6	2	3	0	65	1	1	3	81
1-4 YEARS	2	0	1	1	12	0	0	2	18
5- 9	1	0	0	1	5	0	0	0	7
10-14	0	0	0	0	3	1	0	2	6
15-19	2	1	2	0	12	0	2	3	22
20-24	1	1	0	0	13	1	1	0	17
25-29	0	0	1	5	17	1	0	3	27
30-34	0	2	0	1	20	0	1	3	27
35-39	2	2	2	4	27	0	3	2	42
40-44	3	2	4	3	36	3	3	7	61
45-49	4	2	7	4	40	6	3	6	72
50-54	4	2	11	5	53	6	6	3	90
55-59	4	3	13	9	107	2	4	6	148
60-64	10	11	20	3	167	12	11	9	243
65-69	6	12	32	13	187	15	9	8	282
70-74	14	12	56	20	302	18	30	19	471
75-79	20	27	65	19	345	26	23	10	535
80-84	22	29	80	22	396	31	49	9	638
85-89	27	36	83	32	353	36	43	6	616
90 AND OVER	25	34	82	27	404	40	64	11	687
UNKNOWN	0	0	0	0	1	0	0	0	1
TOTAL	153	178	462	169	2,565	199	253	112	4,091

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

TABLE D1

INFANT DEATHS BY AGE AND ECONOMIC REGION : 1985

BOTH SEXES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 DAY	2	1	3	0	46	1	0	1	54
1 - 6 DAYS	0	0	2	0	42	0	0	0	44
7 - 13 DAYS	0	0	0	0	3	0	0	0	3
14 - 27 DAYS	0	0	0	0	9	1	0	0	10
28 DAYS - 3 MONTHS	0	3	2	0	15	0	1	6	27
3 - 6 MONTHS	3	0	0	0	7	0	0	4	14
6 MONTHS - 1 YEAR	1	0	1	1	9	0	0	1	13
INFANT	6	4	8	1	131	2	1	12	165
NEONATAL	2	1	5	0	100	2	0	1	111
POST-NEONATAL	4	3	3	1	31	0	1	11	54
STILLBIRTHS	1	4	11	3	70	3	1	10	103
PERINATAL	3	5	16	3	158	4	1	11	201

NOTE: NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

TABLE D2

INFANT DEATHS BY AGE AND ECONOMIC REGION : 1986

MALES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 DAY	0	0	2	0	24	0	0	1	27
1 - 6 DAYS	0	0	2	0	24	0	0	0	26
7 - 13 DAYS	0	0	0	0	2	0	0	0	2
14 - 27 DAYS	0	0	0	0	3	1	0	0	4
28 DAYS - 3 MONTHS	0	2	0	0	7	0	0	4	13
3 - 6 MONTHS	0	0	0	0	2	0	0	3	5
6 MONTHS - 1 YEAR	0	0	1	1	4	0	0	1	7
INFANT	0	2	5	1	66	1	0	9	84
NEONATAL	0	0	4	0	53	1	0	1	59
POST-NEONATAL	0	2	1	1	13	0	0	8	25
STILLBIRTHS	1	1	6	2	40	2	0	5	57
PERINATAL	1	1	10	2	88	2	0	6	110

NOTE: NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES

TABLE D3 INFANT DEATHS BY AGE AND ECONOMIC REGION : 1986 FEMALES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 DAY	2	1	1	0	22	1	0	0	27
1 - 6 DAYS	0	0	0	0	18	0	0	0	18
7 - 13 DAYS	0	0	0	0	1	0	0	0	1
14 - 27 DAYS	0	0	0	0	6	0	0	0	6
28 DAYS - 3 MONTHS	0	1	2	0	8	0	1	2	14
3 - 6 MONTHS	3	0	0	0	5	0	0	1	9
6 MONTHS - 1 YEAR	1	0	0	0	5	0	0	0	6
INFANT	6	2	3	0	65	1	1	3	81
NEONATAL	2	1	1	0	47	1	0	0	52
POST-NEONATAL	4	1	2	0	18	0	1	3	29
STILLBIRTHS	0	3	5	1	30	1	1	5	46
PERINATAL	2	4	6	1	70	2	1	5	91

NOTE: NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF COMMUNITY SERVICES